

Mineral Industry Surveys

For information, contact:

Robert G. Reese, Jr., Vanadium Commodity Specialist
U.S. Geological Survey
989 National Center
Reston, VA 20192
Telephone: (703) 648-4981, Fax: (703) 648-7757
E-mail: rreese@usgs.gov

Eric Seavey (Data)
Telephone: (703) 648-7972
Fax: (703) 648-7975

MINES FaxBack: (703) 648-4999
Internet: <http://minerals.usgs.gov/minerals>

VANADIUM IN FEBRUARY 2000

According to Metal Bulletin, U.S. ferrovanadium prices during February ranged from \$4.30 to \$5.00 per pound of vanadium content, compared with \$4.30 to \$4.45 in January. The range for European ferrovanadium prices was \$8.55 to \$13.30 per kilogram in February. In January, European ferrovanadium prices ranged from \$7.45 to \$8.80. For vanadium pentoxide, the February range as published by Metal Bulletin was \$1.45 to \$2.50 per pound, while in January it was \$1.25 to \$1.60 per pound.

Officials at Strategic Metals Corp. (Stratcor) announced plans

to cease mining and concentrating operations at their Brits Mine in South Africa. Production at the plant was expected to be unaffected because Stratcor had secured additional vanadium-bearing slag for processing (Metal Bulletin, 2000).

Reference Cited

Metal Bulletin, 2000, Stratcor to halt vanadium mining at Brits: Metal Bulletin, no. 8451, February 17, p. 13.

TABLE 1
U.S. CONSUMPTION AND CONSUMER STOCKS OF VANADIUM, BY FORM 1/

(Kilograms, contained vanadium)

	1999 p/		2000			
			January		February	
	Consumption	Stocks	Consumption	Stocks	Consumption	Stocks
Ferrovandium 2/	3,370,000	303,000	276,000	287,000	276,000	319,000
Vanadium-aluminum alloy	W	13,100 r/	W	12,300	W	13,700
Other 3/	460,000 r/	9,790	37,600	9,250	37,600	10,300
Total	3,830,000	326,000	313,000	308,000	313,000	343,000

p/ Preliminary. r/ Revised. W Withheld to avoid disclosing company proprietary data; included with "Other."

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

2/ Includes other vanadium-iron-carbon alloys as well as vanadium oxides added directly to steel.

3/ Includes other vanadium alloys, vanadium metal, vanadium pentoxide, vanadates, chlorides, other specialty chemicals, and items indicated by symbol "W".

TABLE 2
U.S. CONSUMPTION OF VANADIUM, BY END USE 1/

(Kilograms, contained vanadium)

	1999 p/	2000		
		January	February	Year to date
Steel:				
Carbon	1,160,000 r/	94,500	101,000	195,000
High-strength low-alloy	949,000	76,400 r/	79,400	156,000
Stainless and heat-resisting	81,500	10,100	W	W
Full alloy	840,000	78,000	71,600	150,000
Tool	343,000	31,000	W	W
Total steel	3,370,000 r/	290,000 r/	290,000	580,000
Superalloys	15,400	1,470	1,660	3,120
Miscellaneous and unspecified 2/	443,000	22,000	21,700	43,700
Total consumption	3,830,000 r/	313,000 r/	313,000	627,000

p/ Preliminary. r/ Revised. W Withheld to avoid disclosing company proprietary data.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

2/ Includes cast irons, alloys excluding steel and superalloys, chemical and ceramic uses, and other miscellaneous and unspecified uses.

TABLE 3
U.S. IMPORTS AND EXPORTS OF ALUMINUM-VANADIUM MASTER ALLOY AND
VANADIUM METAL, INCLUDING WASTE AND SCRAP 1/

(Kilograms, gross weight)

	Aluminum-vanadium master alloy		Vanadium metal, including waste and scrap	
	Quantity	Value	Quantity	Value
Imports for consumption:				
1999	1,210,000	\$1,680,000	30,400	\$779,000
2000:				
January:				
Germany	--	--	2,310	53,300
Russia	--	--	626	28,500
Total	--	--	2,930	81,800
Exports:				
1999	514,000	6,440,000	177,000	3,200,000
2000:				
January:				
Canada	22,200	281,000	--	--
Israel	678	10,500	--	--
Japan	1,240	26,800	--	--
Mexico	25,300	423,000	--	--
South Africa	397	14,900	--	--
Total	49,700	756,000	--	--

-- Zero.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

Source: Bureau of the Census.

TABLE 4
U.S. IMPORTS AND EXPORTS OF FERROVANADIUM, VANADIUM PENTOXIDE (ANHYDRIDE) AND
OTHER OXIDES AND HYDROXIDES OF VANADIUM 1/

(Kilograms, contained vanadium)

	Ferrovanadium		Vanadium pentoxide (anhydride) 2/		Other oxides and hydroxides of vanadium	
	Quantity	Value	Quantity	Value	Quantity	Value
Imports for consumption:						
1999	1,930,000	\$20,700,000	208,000	\$1,920,000	--	--
2000:						
January:						
Austria	22,400	200,000	--	--	--	--
Canada	35,800	334,000	--	--	--	--
China	30,900	230,000	--	--	--	--
South Africa	--	--	30,000	237,000	--	--
Total	89,100	765,000	30,000	237,000	--	--
Exports:						
1999	213,000	3,180,000	747,000	4,270,000	69,700	\$656,000
2000:						
January:						
Belgium	--	--	29,300	160,000	--	--
Brazil	--	--	500	2,830	6,210	32,500
Canada	--	--	--	--	1,580	16,400
Total	--	--	29,800	163,000	7,790	48,900

-- Zero.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

2/ May include catalysts containing vanadium pentoxide.

Source: Bureau of the Census.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF VANADIUM-BEARING ASH, SLAG 1/

(Kilograms, contained vanadium pentoxide)

	Ash and residues		Ash and residues (not from the manufacture of iron and steel)		Slag, from the manufacture of iron and steel	
	Quantity	Value	Quantity	Value	Quantity	Value
1999	1,800,000	\$6,940,000	2,700,000	\$1,360,000	1,150,000	\$1,740,000
2000:						
January:						
Canada	--	--	501,000	170,000	--	--
Mexico	95,900	74,500	--	--	--	--
Total	95,900	74,500	501,000	170,000	--	--

-- Zero.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

Source: Bureau of the Census.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF
MISCELLANEOUS VANADIUM CHEMICALS 1/

(Kilograms, contained vanadium)

	Sulfates		Vanadates	
	Quantity	Value	Quantity	Value
1999	8	\$14,300	174,000	\$1,640,000
2000:				
January:				
Germany	--	--	23,900	122,000
South Africa	--	--	11,600	75,200
Total	--	--	35,500	197,000

-- Zero.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

Source: Bureau of the Census.